SIEMENS

Data sheet

3RV2331-4UC10



Circuit breaker size S2 for starter combination Rated current 40 A N-release 585 A screw terminal Standard switching capacity

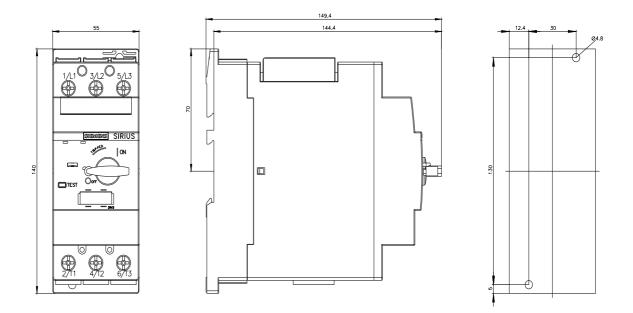


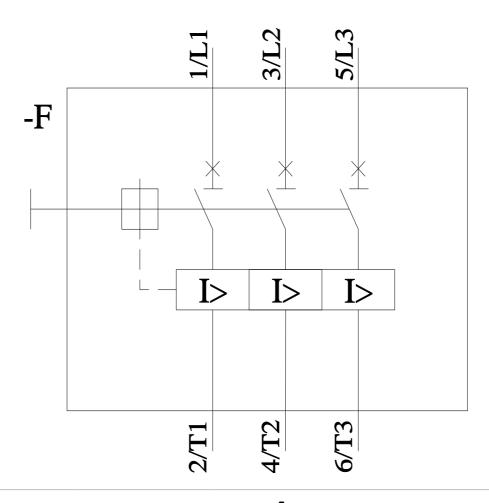
nundust buond name					
product brand name	SIRIUS				
product designation	Circuit breaker				
design of the product	For starter combinations				
product type designation	3RV2				
General technical data					
size of the circuit-breaker	S2				
size of contactor can be combined company-specific	S2				
product extension auxiliary switch	Yes				
power loss [W] for rated value of the current					
 at AC in hot operating state 	20 W				
 at AC in hot operating state per pole 	6.7 W				
insulation voltage with degree of pollution 3 at AC rated value	690 V				
surge voltage resistance rated value	6 kV				
shock resistance according to IEC 60068-2-27	25g / 11 ms Sinus				
mechanical service life (operating cycles)					
 of the main contacts typical 	50 000				
 of auxiliary contacts typical 	50 000				
electrical endurance (operating cycles) typical	50 000				
reference code according to IEC 81346-2	Q				
Substance Prohibitance (Date)	10/15/2014				
SVHC substance name	Lead - 7439-92-1				
Ambient conditions					
installation altitude at height above sea level maximum	2 000 m				
ambient temperature					
 during operation 	-20 +60 °C				
 during storage 	-50 +80 °C				
 during transport 	-50 +80 °C				
relative humidity during operation	10 95 %				
Main circuit					
number of poles for main current circuit	3				
operating voltage					
rated value	20 690 V				
 at AC-3 rated value maximum 	690 V				
• at AC-3e rated value maximum	690 V				
operating frequency rated value	50 60 Hz				
operational current rated value	40 A				
operational current					

at AC-3 at 400 V rated value	40 A
at AC-3e at 400 V rated value	40 A
operating power	
• at AC-3	
— at 230 V rated value	11 kW
— at 400 V rated value	18.5 kW
— at 500 V rated value	22 kW
— at 690 V rated value	37 kW
● at AC-3e	
— at 230 V rated value	11 kW
— at 400 V rated value	18.5 kW
— at 500 V rated value	22 kW
— at 690 V rated value	37 kW
operating frequency	
• at AC-3 maximum	15 1/h
• at AC-3e maximum	15 1/h
Auxiliary circuit	
number of NC contacts for auxiliary contacts	0
number of NO contacts for auxiliary contacts	0
Protective and monitoring functions	
product function	
ground fault detection	No
phase failure detection	No
trip class	CLASS 10
maximum short-circuit current breaking capacity (Icu)	
at AC at 240 V rated value	100 kA
at AC at 400 V rated value	65 kA
at AC at 500 V rated value	10 kA
at AC at 690 V rated value	4 kA
operating short-circuit current breaking capacity (Ics) at AC	
at 240 V rated value	100 kA
• at 400 V rated value	30 kA
• at 500 V rated value	5 kA
at 690 V rated value	2 kA
response value current of instantaneous short-circuit trip unit	585 A
UL/CSA ratings	505 A
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	40 A
at 600 V rated value	40 A
yielded mechanical performance [hp]	
for single-phase AC motor	
— at 110/120 V rated value	3 hp
— at 230 V rated value	7.5 hp
for 3-phase AC motor	
— at 200/208 V rated value	15 hp
— at 220/230 V rated value	15 hp
— at 460/480 V rated value	30 hp
— at 575/600 V rated value	40 hp
Short-circuit protection	
product function short circuit protection	Yes
design of the short-circuit trip	magnetic
design of the fuse link for IT network for short-circuit	
protection of the main circuit	
• at 240 V	none required
• at 400 V	125
• at 500 V	100
• at 690 V	80
Installation/ mounting/ dimensions	
mounting position	any
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
height	140 mm

width	55 mm			
depth	149 mm			
required spacing				
with side-by-side mounting at the side	0 mm			
 for grounded parts at 400 V 	· mm			
— downwards	50 mm			
— upwards	50 mm			
— at the side	10 mm			
• for live parts at 400 V				
— downwards	50 mm			
— upwards	50 mm			
— at the side	10 mm			
 for grounded parts at 500 V 				
— downwards	50 mm			
— upwards	50 mm			
— at the side	10 mm			
• for live parts at 500 V				
— downwards	50 mm			
— upwards	50 mm			
— at the side	10 mm			
 for grounded parts at 690 V 				
— downwards	50 mm			
— upwards	50 mm			
— backwards	0 mm			
— at the side	10 mm			
— forwards	0 mm			
• for live parts at 690 V				
— downwards	50 mm			
— upwards	50 mm			
— backwards	0 mm			
— at the side	10 mm			
— forwards	0 mm			
Connections/ Terminals				
type of electrical connection				
• for main current circuit	screw-type terminals			
arrangement of electrical connectors for main current circuit	Top and bottom			
type of connectable conductor cross-sections				
for main contacts				
— solid or stranded	2x (1 25 mm²), 1x (1 35 mm²)			
 finely stranded with core end processing 	2x (1 16 mm²), 1x (1 25 mm²)			
 for AWG cables for main contacts 	2x (18 3), 1x (18 2)			
tightening torque				
 for main contacts with screw-type terminals 	3 4.5 N·m			
design of screwdriver shaft	Diameter 5 to 6 mm			
size of the screwdriver tip	Pozidriv size 2			
design of the thread of the connection screw				
for main contacts	M6			
Safety related data	Vec			
product function suitable for safety function	Yes			
suitability for use	No			
 safety-related switching on safety-related switching OFF 	No Yes			
• salety-related switching OFF	10 a			
test wear-related service life necessary	Yes			
proportion of dangerous failures				
with low demand rate according to SN 31920	40 %			
with high demand rate according to SN 31920	40 % 50 %			
B10 value with high demand rate according to SN 31920	50 %			
failure rate [FIT] with low demand rate according to SN 31920	5000 50 FIT			
31920				

ISO 13849			2				
	device type according to ISO 13849-1 3						
overdimensioning according to ISO 13849-2 necessary			Yes				
	IEC 61508						
safety device type acc	ording to IEC 61508-2		Туре	A			
 for proof test inter 	T1 value • for proof test interval or service life according to IEC		10 a				
61508							
,	Electrical Safety						
-				IP20			
touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front							
Display							
display version for swite	ching status		Handl	e			
Approvals Certificates			_				
General Product Appr	oval						
CE EG-Konf.	UK CA	<u>Confirmation</u>	n		(UL) III	<u>KC</u>	
General Product Approval	Test Certificates			Marine / Shipping			
EHC	<u>Special Test Certific-</u> <u>ate</u>	Type Test Cert ates/Test Rep		ABS	B UREAU VERITAS		
Marine / Shipping				other			
Lloyd's Kegister uis	PRS	RINA		<u>Miscellaneous</u>	<u>Confirmation</u>		
Railway		Environment					
Special Test Certific- ate	<u>Confirmation</u>	EPD		Siemens EcoTech	Environmental Con- firmations		
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Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)							
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